

Matrix Multiplication

Multiplying matrices is a bit more complicated. This is performed by adding the product of row entries in a matrix (A) by the corresponding column entries in another matrix (B).

Lets see an example, before we look at the formula:

$$\mathbf{A} = \begin{bmatrix} 2 & 3 \\ 5 & 10 \end{bmatrix} \quad \mathbf{B} = \begin{bmatrix} 1 & 3 \\ 4 & 5 \end{bmatrix}$$

$$\mathbf{AB} = \begin{bmatrix} (2 \cdot 1) + (3 \cdot 4) & (2 \cdot 3) + (3 \cdot 5) \\ (5 \cdot 1) + (10 \cdot 4) & (5 \cdot 3) + (10 \cdot 5) \end{bmatrix}$$

$$\mathbf{AB} = \begin{bmatrix} 14 & 21 \\ 45 & 65 \end{bmatrix}$$

Matrices And Linear Algebra

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